

Executive Order (EO) 14008 on Climate Change

CMRA Portal Status Update

(Climate Mapping for Resilience and Adaptation)

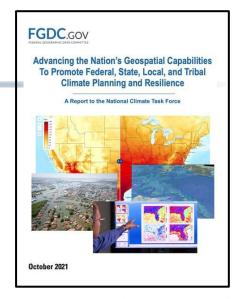


September 7, 2022

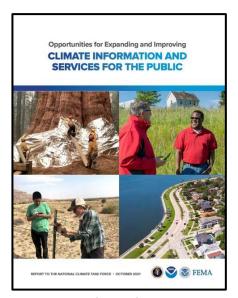
Tony LaVoi, NOAA Chief Data Officer & NGAC Member Kim Valentine, NOAA Geospatial Information Officer

NGAC and EO 14008

- EO 14008 issued in January 2021
- Two climate information reports to the Climate Task Force (FGDC named lead for one)
- NGAC engagement (docs @ www.fgdc.gov/ngac)
 - April 2021: Introduced CRIS concept; facilitated discussion on Day 1 and 2; NGAC feedback on approach
 - June 2021: Climate Mapping Report update; The Opportunity Project Climate Smart Communities
 - October 2021: Overview of Climate Mapping and Climate Information System reports; NGAC resolution
 - <u>December 2021</u>: CRIS update; FGDC Evaluation of Climate
 Mapping Capabilities and FGDC Core Activities
 - May 2022: CRIS and READI Update



FGDC Report on Advancing Geospatial Capabilities



OSTP/NOAA/FEMA
Report on Climate Information and Services



NGAC Resolution

"The NGAC supports the findings and recommendations of the FGDC report, "Advancing the Nation's Geospatial Capabilities to Promote Federal, State, Local, and Tribal Climate Planning and Resilience," and recommends an immediate roll out of pilots, prototyping, and exploratory activities that complement and supplement the 120-day review described in the report. The NGAC believes that this parallel approach to addressing Federal climate mapping services will help align and accelerate the deployment of data and services to meet the needs of the Nation."







CMRA Portal (Screening Tool)

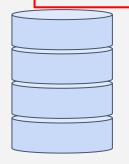
Climate Explorer (Open Source)

NCA5 Interactive Atlas

Custom Portals (e.g., Heat.gov)

For **Consumers** of Services

Climate Resilience Information System (CRIS)



Decision-relevant Data



APIs, Analysis Tools, & Utilities



Federal Geospatial Standards & Services For **Designers** of Services

Climate Resilience Information System (CRIS)

- US Global Change Research Program (USGCRP), in partnership with the FGDC, is leading a cross-agency effort to develop CRIS – Climate Resilience Information System
- Brings together climate-relevant Federal data to support local planning and decision-making to help protect people, property, and infrastructure
- Complements the U.S. Climate Resilience Toolkit (CRT), which offers discovery metadata and links to a wide range of Federal decision-support tools and information resources
- **Scope**: five climate-driven hazards, including extreme heat, coastal inundation, flooding, drought, and wildfire
- **Components**: (1) National Climate Hazards Portal, (2) National Screening Tool [CMRA Portal], and (3) Climate Maps & Data Explorer
- Target Audiences: Decision-Makers, Service Providers, and Public



Climate Mapping for Resilience and Adaptation (CMRA)

- Same concept as REsilience and ADaptation Information (READI) Portal (READI) but the name has changed
- Executive Order 14008 directs the National Climate Task Force to:
 "facilitate the planning and implementation of key Federal actions... to
 increase resilience to the impacts of climate change" and to "ensure
 federal infrastructure investment[s] reduce climate pollution."
- The Infrastructure Investment and Jobs Act (IIJA) represents \$1.2 trillion in infrastructure spending, \$47 billion of which is for resilience.
- Per OMB Guidance, agencies are encouraged to provide technical assistance to applicants for IIJA and other Fed grants, including tools to help quantify climate change and equity benefits of infrastructure projects.
- The Climate Mapping for Resilience and Adaptation (CMRA) Portal is being developed to support IIJA applicants in undertaking these assessments.

What is CMRA?

An integrated hub of Federal data, information, and tools designed to aid U.S. government entities, communities, & businesses in planning and implementing federally funded climate resilience projects, such as those funded by IIJA.

CMRA offers information about:

- Climate hazards—historical observations, current conditions, and future projections
- Resilience planning—e.g., building codes and CEJS tool
- Federal funding—including IIJA Programs and hazard mitigation

Key Partners

- ☐ White House OSTP, CEQ, & OMB
- ☐ U.S. Global Change Research Program
- ☐ Federal Geographic

 Data Committee
- ☐ Department of the Interior / USGS
- ☐ DOC/NOAA
- IWG teams of subject matter experts

Current Status

- FY22 IIJA funds provided by both NOAA and DOI
- NOAA task order awarded to Esri on 7/13/22
- NOAA Climate Resilience Toolkit (CRT) Team took on the 'managing editor' role, working with WH Climate Interagency Working Groups (IWG) and interagency partners
- Site to be hosted/managed by NOAA, initially on Esri's host platform, in association with the CRT (likely at resilience.climate.gov).
- First review draft of CMRA contents shared with WH IWGs and WH-selected stakeholders, comments received August 19
- Second round of reviews conducted and comments adjudicated
- Anticipated release of the CMRA Portal on September 8

CMRA Demonstration



Next Steps over Next 6 Months

- Public release of CMRA expected on September 8, to be followed by targeted outreach and feedback efforts
- Begin developing a 2nd task order
 - Expand scope and utilities in CMRA, such as:
 - Real-time state-specific summaries of hazard events
 - Integrate new data layers and government info as it becomes available
 - Incorporated solicited stakeholder feedback on CMRA
 - Commence first build of CRIS (Climate Resilience Information System), envisioned for Q2 of FY23
 - FGDC member agencies provided feedback on draft CRIS Work Plan in Mid-August (i.e. Concept & Design, Enterprise Architecture, etc.)
- Encourage continued role for NGAC in development of CRIS and CMRA

